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APPLICATION NO.	FILING DATE	· FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/656,074	09/05/2003	Vincent Demoulin	PF020110	1366	
24498 THOMSON LI	7590 11/23/200 CENSING LLC	7	EXAMINER		
THOMSON LICENSING LLC Two Independence Way			VO, DON NGUYEN		
Suite 200 PRINCETON,	NJ 08540		ART UNIT	PAPER NUMBER	
,			2611		
			MAIL DATE	DELIVERY MODE	
	•		11/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	·						
,	Application No.	Applicant(s)					
Office Action Summers	10/656,074	DEMOULIN ET AL.					
Office Action Summary	Examiner	Art Unit					
	DON N. VO	2611					
The MAILING DATE of this communication appo Period for Reply	ears on the cover sheet with the c	orrespondence ad	idress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. nely filed the mailing date of this of (35 U.S.C. § 133).	,				
Status							
1) Responsive to communication(s) filed on 10 Se	Intemher 2007						
	·						
· <u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex							
Disposition of Claims	, parto dady, o, 1000 0121 11, 10						
4) Claim(s) 1-5 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
	6) Claim(s) <u>1-5</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on 10 September 2007 is/are: a)⊠ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
 Certified copies of the priority documents 	have been received.						
2. Certified copies of the priority documents	have been received in Application	on No					
Copies of the certified copies of the priori	ty documents have been receive	d in this National	Stage				
application from the International Bureau	(PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)	, —						
1) X Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
B) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal P						
Paper No(s)/Mail Date 6) Other:							

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DETAILED ACTION

Acknowledgment

1. This Office Action is responsive to the Amendment filed on 9/10/2007.

Claim Objections

2. Claim 1 is objected to because of the following informalities:

The recitation of "n" recited at last line of the claim is suggested to change to -

on --.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Feng et al (US 7,099,380) in view of Provene (US 4,885,757).

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As shown in figure 8, Feng teaches an OFDM receiver having antenna selection (310) based on low error rate. See also column 5, lines 57-65 and column 6, line 62 to column 7, line 35. Feng fails to teach using the neural network to model the frequency response of the channel. However, Provene, as shown in figure 8, teaches using neural network (68) to model the frequency response of the channel. See also abstract and column 12, line 51 to column 17, line 16. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Feng by incorporating the neural network as taught by Provene so that the channel characteristics can be correctly modeled and thus to provide a better frequency response estimation of the channel.

Response to Arguments

5. Applicant's arguments with respect to claims 1-5 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DON N. VO whose telephone number is (571) 272-3018. The examiner can normally be reached on Mon-Fri (9:00AM - 6:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MOHAMMAD GHAYOUR can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DON N. VO

Primary Examiner

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